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# 100 COMPANIES

COMPANIES RECEIVING THE LARGEST DOLLAR VOLUME  
OF ~~MAJOR~~ PRIME CONTRACT AWARDS

FISCAL YEAR 1978

DEPARTMENT OF DEFENSE  
WASHINGTON HEADQUARTERS SERVICES  
DIRECTORATE FOR INFORMATION  
OPERATIONS AND REPORTS

100 LARGEST DEFENSE CONTRACTORS  
AND THEIR SUBSIDIARY CORPORATIONS  
FISCAL YEAR 1978

FOREWORD

This report presents summary data on Department of Defense military prime contracts awarded to the leading 100 companies and their subsidiary corporations during fiscal year 1978.

The data include debit and credit procurement actions over \$10,000, worldwide, under military supply, service, and construction contracts. Procurement actions include definitive contracts, the obligated portions of letter contracts, job orders, task orders, delivery orders, and any other orders against existing contracts. The data do not include that part of indefinite quantity contracts that have not been translated into specific orders on business firms, nor do they include purchase commitments on pending cancellations that have not yet become mutually binding agreements between the government and the company. The company totals do not include contracts made by other U.S. Government agencies and financed with Department of Defense funds, or contracts awarded in foreign nations through their respective governments.

The assignment of subsidiaries to parent companies is based on stock ownership of 50 percent or more by the parent company, as indicated by data published in standard industrial reference sources.

The company names and corporate structures are those in effect as of September 30, 1978 and for purposes of this report company names have been retained unless specific knowledge was available that a company has been merged into the parent or absorbed as a division with loss of company identity. Only those subsidiaries are shown for which procurement actions have been reported.

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100 COMPANIES AND THEIR SUBSIDIARY CORPORATIONS  
LISTED ACCORDING TO NET VALUE OF MILITARY  
PRIME CONTRACT AWARDS

FISCAL YEAR 1978

Department of Defense military prime contract awards over \$10,000 for research and development, services, construction, and supplies and equipment awarded during fiscal year 1978 totaled \$59.6 billion, \$9.2 billion more than in fiscal year 1977. Large awards for aircraft, missile and space systems, electronics and communications, and ships, which are dominated by large contractors, resulted in \$40.8 billion or 68.5 percent of total procurement being awarded to these 100 companies which, together with their subsidiaries, received the largest dollar volume of prime contracts over \$10,000. In fiscal year 1977, the top 100 companies received \$34.1 billion or 67.7 percent of the volume of all awards.

The following table shows that the first five companies received 22.5 percent of the total received by all companies in fiscal year 1978, compared with 17.7 percent during fiscal year 1977. The largest company in fiscal year 1978 received awards totalling \$4.2 billion compared with \$2.6 billion for the largest company in fiscal year 1977. To get on the list in fiscal year 1978 required \$61 million in awards, as opposed to \$62 million in fiscal year 1977.

<u>Companies</u>	<u>PERCENT OF TOTAL</u>			
	<u>FY 1975</u>	<u>FY 1976</u>	<u>FY 1977</u>	<u>FY 1978</u>
1st	5.1%	5.9%	5.1%	7.0%
2nd	3.8	3.6	3.3	4.8
3rd	3.4	3.5	3.2	4.0
4th	3.4	3.2	3.1	3.7
5th	3.3	2.9	3.0	3.0
1-5	19.0%	19.1%	17.7%	22.5%
6-10	13.1%	12.3%	12.7%	11.9%
11-25	14.8	17.0	16.9	14.3
1-25	46.9%	48.4%	47.3%	48.7%
26-50	10.8%	11.7%	11.6%	11.1%
51-75	5.5	5.5	5.3	5.4
76-100	3.1	3.4	3.5	3.3
1-100	66.3%	69.0%	67.7%	68.5%

Fourteen contractors who did not appear on the list last year are among the top 100 companies this year. Of these, one appears in position 23, one in position 45, one in position 49, and the balance between positions 56 and 100.

COMPANIES LISTED IN FY 1978  
BUT NOT IN FY 1977

AGIP SPA  
ATLANTIC RICHFIELD CO.  
BETHLEHEM STEEL CORP.  
CHARLES STARK DRAPER LABS., INC.  
CUBIC CORP.  
MASON & HANGER SILAS MASON CO.  
MITRE (THE) CORP.  
NATOMAS CO.  
PETROLEOS MEXICANOS  
RET SER ENGINEERING CO.  
REYNOLDS R.J. INDUSTRIES, INC.  
RICH MARC & CO.  
UNITED INDUSTRIAL CORP.  
VINNELL CORP.

COMPANIES LISTED IN FY 1977  
BUT NOT IN FY 1978<sup>(1)</sup>

A T O, INC.  
ALGERNON BLAIR, INC.  
CUTLER-HAMMER, INC.  
GENERAL FOODS CORP.  
KAISER INDUSTRIES CORP.  
MI RYUNG CONSTRUCTION CO. LTD.  
MORRISON KNUDSEN USS & F&M JV  
MORRISON KNUDSEN CO., INC.  
PETERSON BUILDERS, INC.  
PROCTOR & GAMBLE CO.  
SAUDI TARMAC LTD. TARMAC OS LTD.  
TACOMA BOATBUILDING CO., INC.  
TEXACO, INC.  
YOU ONE CONSTRUCTION CO. LTD.

Of the 86 companies appearing on the list in both fiscal year 1977 and 1978, 36 advanced their position, 43 are in a lower position, and 6 showed no change. Companies are considered as appearing on the list in both years despite mergers, acquisitions, divestitures, and name changes if a major component of a newly constituted company or the newly constituted company itself made the list as a component of a company in the top 100 in the prior year.

Although the contract work of many companies on the list include more than one procurement category, each company has been assigned in the following table to the procurement category that accounts for its largest dollar volume of defense awards; for example, International Telephone and Telegraph Corporation is a multi-industry company producing electronic and communications equipment and industrial and consumer products. For this table, it is assigned to "Electronics," the procurement category accounting for its largest dollar volume of DoD contract awards. On this basis, companies producing "Services" increased by six, while companies performing construction work decreased by five, and ship contractors decreased by four.

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(1) Excludes Automation Industries, which is now a subsidiary of General Cable Corporation.

NUMBER OF COMPANIES

<u>Procurement Category</u>	<u>FY 1978</u>	<u>FY 1977</u>	<u>CHANGE</u>
Aircraft	15	15	--
Missiles	13	12	+1
Ships	6	10	-4
Tank Automotive	5	6	-1
Ammunition	11	10	+1
Electronics	17	18	-1
Services	12	6	+6
Construction	1	5	-5
Petroleum	18	15	+3
Weapons	1	1	--
Subsistence	--	1	-1
All Other	1	1	--

During fiscal year 1978, ten companies received prime contract awards of \$1 billion or more. The ten companies and a brief description of their work are as follows:

<u>RANK</u>		<u>COMPANY NAME</u>	<u>AWARDS (Millions)</u>	
<u>1978</u>	<u>1977</u>		<u>1978</u>	<u>1977</u>
1	8	General Dynamics Corporation	4.2	1.4
2	1	McDonnell Douglas Corporation	2.9	2.6
3	3	United Technologies Corporation	2.4	1.6
4	2	Lockheed Corporation	2.2	1.7
5	5	General Electric	1.8	1.5
6	16	Litton Industries, Inc.	1.6	.6
7	4	Boeing Co.	1.5	1.6
8	9	Hughes Aircraft Co.	1.5	1.1
9	11	Raytheon Co.	1.3	1.0
10	7	Grumman Corporation	1.2	1.4

General Dynamics Corporation, with over a 200 percent increase in awards, is ranked first this year after an eighth-place ranking in 1977. Its 1978 percentage share was 7.0 compared to 2.7 last year. Major contracts were for the F-16 Condor fighter aircraft, nuclear submarines, and R&D for the Tomahawk missile system.

McDonnell Douglas Corporation, after two years in first place, moved to second place during fiscal year 1978 with awards of \$2.9 billion and 4.8 percent of the total. Major contracts continue to be for the F-18 prototype and F-15 Eagle aircraft and the AGM-84 Harpoon missile.

United Technologies Corporation remained in third place even though their awards increased by \$815 million or 51 percent during fiscal year 1978. Major defense contracts were for the F-100, TF-30, and TF-33 aircraft engines and the UTTAS-60 helicopter.

Lockheed Corporation dropped to fourth place after two years in the number two spot even with increased awards of 33 percent over last year. The majority of awards during fiscal year 1978 were for the TRIDENT missile system and the S-3 VIKING, P-3 ORION, and C-130 HERCULES aircraft.

General Electric Company remained in fifth place with increased awards of 18 percent (\$266 million), while its share of the total remained constant at about 3 percent. Major awards were for turbojet and turbofan engines, TRIDENT and MINUTEMAN missiles, and R&D for the F-18 HORNET and B-1 aircraft.

Litton Industries, Inc., in sixteenth place during fiscal year 1977, moved into sixth place with increased awards of 156 percent over last year with 2.6 percent of total (1.2 percent last year). Nuclear submarines, amphibious assault ships, and the DDG-47 AEGIS and DD-963 class destroyers were the major work of this company. Miscellaneous electronics and communication equipment also accounted for a large portion of the awards.

Boeing Company, in fourth place in fiscal year 1977, with a decrease of \$56 million in awards dropped to seventh place this year. The largest contracts were for the Air Warning and Control System (AWACS), MINUTEMAN missile, hydrofoil patrol ships, E-3 Special Electronic Installation aircraft, and R&D for the space shuttle.

Hughes Aircraft Company moved from ninth to eighth place with awards of \$1.5 billion or 2.5 percent of the total compared with \$1.1 billion and 2.2 percent during fiscal year 1977. Guided missile control system for the F-14 TOMCAT, the TOW, TRIDENT, PHOENIX, and MAVERICK missiles, space vehicles, and R&D for ROLAND missile system made up the major awards during fiscal year 1978.

Raytheon Company, in eleventh place last year, moved to ninth position this year as the value of contract awards rose by \$266 million. The company awards were predominately for the PATRIOT, DRAGON, and TRIDENT missile systems.

Grumman Corporation ranks in tenth place as compared to seventh in fiscal year 1977, as their share of awards dropped from 2.8 percent to 2.0 percent. Work on the E-2 HAWKEYE, A-6 INTRUDER, and EA-68 PROWLER aircraft as well as R&D for the F-111 TFX aircraft accounted for a large portion of the company awards.

INDEX OF 100 COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE  
LARGEST DOLLAR VOLUME OF MILITARY PRIME CONTRACT AWARDS IN FISCAL YEAR 1978

RANK	PARENT COMPANY	RANK	PARENT COMPANY
66.	AEROSPACE CORP.(N)	37.	INTERNATIONAL TELEPHONE & TEL CORP.
56.	AGIP SPA	60.	JOHNS HOPKINS UNIVERSITY (N)
32.	AMERADA HESS CORP.	28.	L T V CORP.
39.	AMERICAN MOTORS CORP.	77.	LEAR SIEGLER, INC.
21.	AMERICAN TELEPHONE & TELEGRAPH CO.	6.	LITTON INDUSTRIES, INC.
89.	ATLANTIC RICHFIELD CO.	4.	LOCKHEED CORP.
64.	AVCO CORP.	91.	LORAL CORP.
78.	BEECH AIRCRAFT CORP.	19.	MARTIN MARIETTA CORP.
40.	BENDIX CORP.	90.	MASON & HANGER SILAS MASON CO.
86.	BETHLEHEM STEEL CORP.	69.	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
7.	BOEING CO.	2.	MCDONNELL DOUGLAS CORP.
42.	BRITISH PETROLEUM CO. LTD.	93.	MITRE (THE) CORP. (N)
96.	BURROUGHS CORP.	48.	MOBIL CORP.
61.	CHAMBERLAIN MFG. CORP.	65.	MOTOROLA, INC.
81.	CHARLES STARK DRAPER LABS., INC.	99.	NATOMAS CO.
13.	CHRYSLER CORP.	84.	NORRIS INDUSTRIES
53.	COASTAL CORP.1/	57.	NORTH AMERICAN PHILIPS CORP.
88.	COMPUTER SCIENCES CORP.	15.	NORTHROP CORP.
34.	CONGOLEUM CORP.	50.	OGDEN CORP.
71.	CONTROL DATA CORP.	79.	PACIFIC RESOURCES, INC.
98.	CUBIC CORP.	73.	PAN AMERICAN WORLD AIRWAYS, INC.
97.	DAY & ZIMMERMAN, INC.	45.	PETROLEOS MEXICANOS
82.	DUPONT E I DE NEMOURS & CO.	16.	R C A CORP.
58.	E SYSTEMS, INC.	9.	RAYTHEON CO.
72.	EASTMAN KODAK CO.	49.	RET SER ENGINEERING CO.
68.	EMERSON ELECTRIC CO.	23.	REYNOLDS R.J. INDUSTRIES, INC.
43.	ENGELHARD MINERALS & CHEMICALS CORP.	94.	RICH, MARC & CO.
33.	EXXON CORP.	11.	ROCKWELL INTERNATIONAL CORP.
30.	F M C CORP.	47.	ROYAL DUTCH SHELL GROUP
20.	FAIRCHILD INDUSTRIES, INC.	67.	SANDERS ASSOCIATES, INC.
26.	FORD MOTOR CO.	52.	SIGNAL COMPANIES INC. (THE)
63.	GENERAL CABLE CORP.	35.	SINGER CO.
1.	GENERAL DYNAMICS CORP.	14.	SPERRY RAND CORP.
5.	GENERAL ELECTRIC CO	38.	STANDARD OIL CO. OF CALIFORNIA
24.	GENERAL MOTORS CORP.	76.	STANDARD OIL OF INDIANA
46.	GENERAL TELEPHONE & ELECTRONICS CORP.	62.	SUN CO., INC.
41.	GENERAL TIRE & RUBBER CO.	83.	SVERDRUP & PARCEL & ASSOCIATES, INC.
51.	GOODYEAR TIRE & RUBBER CO.	31.	T R W, INC.
55.	GOULD, INC.	36.	TELEDYNE, INC.
10.	GRUMMAN CORP.	25.	TENNECO, INC.
59.	GUAM OIL & REFINING CO., INC.	22.	TEXAS INSTRUMENTS, INC.
87.	GULF OIL CORP.	12.	TEXTRON, INC.
74.	HARRIS CORP.	70.	THIOKOL CORP.
44.	HARSCO CORP.	29.	TODD SHIPYARDS CORP.
54.	HERCULES, INC.	85.	TRANSAMERICA CORP.
92.	HEWLETT PACKARD CO.	80.	U.S. & SOUTH AMERICAN ENTERPRISES
17.	HONEYWELL, INC.	100.	UNITED INDUSTRIAL CORP.
8.	HUGHES AIRCRAFT CO.	3.	UNITED TECHNOLOGIES CORP.
27.	INTERNATIONAL BUSINESS MACHINES CO.	75.	VINNELL CORP.
95.	INTERNATIONAL HARVESTER CO.	18.	WESTINGHOUSE ELECTRIC CORP.

1/ Formerly, Coastal States Gas Corporation.

100 COMPANIES AND THEIR SUBSIDIARIES LISTED ACCORDING TO  
NET VALUE OF MILITARY PRIME CONTRACT AWARDS

FISCAL YEAR 1978  
( 1 OCT 1977 - 30 SEP 1978 )

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
	U. S. T O T A L	\$59,581,864 =====	100.00	100.00
	TOTAL, 100 COMPANIES + THEIR SUBSIDIARIES	40,822,366 =====	68.51	68.51
1.	GENERAL DYNAMICS CORP CATAGRAPHIX CORP GENERAL DYNAMICS COMMUNICATIONS CO STRONBERG CATAGRAPHIX, INC	4,142,816 84 4,995 5,652 -----		
	TOTAL	4,153,547	6.97	6.97
2.	MCCONNELL DOUGLAS CORP	2,863,294	4.81	11.78
3.	UNITED TECHNOLOGIES CORP APBAC INDUSTRIES INC ESSEX INTERNATIONAL, INC CTIS ELEVATOR CO FRATT + WHITNEY AIRCRAFT CO TERMINAL COMMUNICATIONS, INC	2,384,173 14,288 98 650 559 21 -----		
	TOTAL	2,399,789	4.03	15.81
4.	LOCKHEED CORP LOCKHEED ELECTRONICS CO, INC LOCKHEED MISSILES + SPACE CO INC LOCKHEED SHIPBUILDING CONSTRUCTION MURCOCK MACHINE + ENGR CO OF TEXAS	700,438 52,196 1,183,846 289,549 482 -----		
	TOTAL	2,226,431	3.74	19.55
5.	GENERAL ELECTRIC CO GENERAL ELECTRIC MEDICAL SYSTEMS INTERMAGNETICS GENERAL CORP MANAGEMENT + TECHNICAL SERVICES CO	1,782,684 32 384 3,348 -----		
	TOTAL	1,786,448	3.00	22.55
6.	LITTON INDUSTRIES, INC DIEHL DATA SYSTEMS KOEHLER CAYTON INC LITTON BIONETICS INC LITTON BUSINESS SYSTEMS, INC LITTON EDUCATIONAL PUB CO, INC LITTON INDUSTRIAL PRODUCTS INC LITTON MEDICAL PRODUCTS, INC LITTON PRECISION PRODUCTS INTL INC LITTON SYSTEMS INC MONROE BUSINESS EQUIPMENT CO INC MONROE CALCULATING CO MONROE INTERNATIONAL INC WESTERN GEOPHYSICAL CO OF AMERICA	48,076 30 20 521 713 175 1,000 63 292 1,505,746 12 362 42 82 -----		
	TOTAL	1,557,134	2.61	25.16

RANK	COMPANIES	THOUSANDS OF COLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
7.	BOEING CO	1,301,356		
	BOEING AEROSPACE CO	148		
	BOEING COMPUTER SERVICES INC	5,725		
	BOEING INTL CORP	3,524		
	BOEING SERVICES INTERNATIONAL INC	52,164		
	BOEING VERTOL CO	161,517		
	TOTAL	1,524,454	2.56	27.72
8.	FUGHEE AIRCRAFT CO	1,297,632		
	FUGHEE RESEARCH LABS.	1,123		
	SANTA BARBARA RESEARCH CENTER	45,430		
	SLMPA CORP	144,373		
	TOTAL	1,488,558	2.50	30.22
9.	RAYTHEON CO	1,205,856		
	ICMA MFG CO OF CEDAR RAPIDS ICMA	24		
	LEXITRON CORP	578		
	LCRAC SERVICE CORP	68		
	MACHLETT LABORATORIES INC	1,292		
	RAYTHEON EDUCATIONAL SYSTEMS CO	78,176		
	RAYTHEON GULF SYSTEMS CO	2,908		
	RAYTHEON SERVICE CO	15,626		
	RAYTHEON TECHNICAL ASSISTANCE CO	989		
	UNITED ENGINEERS + CONSTRUCTORS	1,266		
	TOTAL	1,306,783	2.19	32.41
10.	GRUPMAN CORP			
	GRUPMAN AEROSPACE CORP	1,175,218		
	GRUPMAN DATA SYSTEMS CORP	4,791		
	GRUPMAN ENERGY SYSTEMS INC	23		
	TOTAL	1,180,032	1.98	34.39
11.	ROCKWELL INTERNATIONAL CORP	850,177		
	HEIP UNIVERSAL CORP	27		
	TOTAL	850,204	1.49	35.88
12.	TEXTRON INC	463,475		
	BELL HELICOPTER INTL INC	403,929		
	E-Z GO CAR CORP	16		
	JACOBSEN MFG CO	97		
	TOTAL	867,517	1.46	37.34
13.	CHRYSLER CORP	742,489	1.25	38.59
14.	SPERRY RAND CORP	605,834		
	SPERRY ELECTRO COMPONENTS	323		
	SPERRY FLIGHT SYSTEMS	5,726		
	SPERRY MARINE SYSTEMS	125		
	SPERRY MICROWAVE COMPONENTS	12		
	TOTAL	612,020	1.03	39.62
15.	NORTHROP CORP	520,266		
	ALABAMA INDUSTRIES, INC	660		
	NORTHROP WORLDWIDE ACFT SVCS INC	65,053		
	PAGE COMMUNICATIONS ENGINEERS INC	30		
	TOTAL	586,049	0.98	40.60

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
16.	R C A CORP	535,675		
	BANQUET FOODS CORP	18		
	HERTZ CORP	18		
	HERTZ EQUIPMENT RENTAL CORP	13		
	MILSON FURNITURE INDUSTRIES	316		
	R C A ALASKA COMMUNICATIONS INC	14,679		
	R C A GLOBAL COMMUNICATIONS, INC	13,696		
	R C A MOBILE COMMUNICATIONS	24		
	SHELBY WILLIAMS INDUSTRIES, INC	775		
	TOTAL	565,214	0.95	41.55
17.	MONEYWELL INC	459,973		
	MONEYWELL INFORMATION SYSTEMS, INC	82,568		
	SKINNER PRECISION INDUSTRIES INC	51		
	SPECTRONICS INC	2,111		
	TOTAL	544,703	0.91	42.46
18.	WESTINGHOUSE ELECTRIC CORP	537,397		
	THERMO KING CORP	13		
	WEDCO CORP	83		
	WESTINGHOUSE ELECTRIC SUPPLY CO	1,557		
	WESTINGHOUSE LEARNING CORP	137		
	TOTAL	539,187	0.90	43.36
19.	MARTIN MARIETTA CORP	461,466		
	MARTIN MARIETTA AGGREGATES	22		
	MARTIN MARIETTA ALUMINUM INC	2,237		
	MARTIN MARIETTA ALUMINUM SALES INC	74,756		
	MARTIN MARIETTA DATA SYSTEMS INC	760		
	TOTAL	539,181	0.90	44.26
20.	FAIRCHILD INDUSTRIES, INC	507,117		
	AMERICAN SATELLITE CORP	749		
	TOTAL	507,866	0.85	45.11
21.	AMERICAN TELEPHONE + TELEGRAPH CO	253,776		
	CHESAPEAKE + POTOMAC TEL CO OF CO	36,160		
	ILLINOIS BELL TEL CO	360		
	INDIANA BELL TEL CO, INC	150		
	MICHIGAN BELL TEL CO	442		
	MOUNTAIN BELL TELEPHONE CO	4,318		
	NEW ENGLAND TEL + TEL CO	1,795		
	NEW JERSEY BELL TELEPHONE CO	650		
	NEW YORK TELEPHONE CO	755		
	NORTHWESTERN BELL TELEPHONE CO	821		
	CHIC BELL TELEPHONE CO	930		
	PACIFIC NORTHWEST BELL TELEPHONE	326		
	PACIFIC TELEPHONE + TELEGRAPH CO	3,534		
	SOUTH CENTRAL BELL TEL CO	1,852		
	SOUTHERN BELL TELEPHONE + TELEGRAPH	3,863		
	SOUTHWESTERN BELL TELEPHONE	4,237		
	TELETYPE CORP	11,134		
	WESTERN ELECTRIC CO INC	131,491		
	TOTAL	456,634	0.77	45.88
22.	TEXAS INSTRUMENTS INC	434,408	0.73	46.61

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
23.	REYNOLDS (RJ) INDUSTRIES, INC RJR FOODS, INC SEA-LAND SERVICE, INC UNITED STATES LINES INC	28,033 2,350 222,337 168,722 -----		
	TOTAL	421,442	0.71	47.32
24.	GENERAL MOTORS CORP	419,530	0.70	48.02
25.	TENNECO INC CASE (JI) CO CASE POWER + EQUIPMENT LTD GAS EQUIPMENT ENGRS, INC NEWPORT NEWS SHIPYARD + DRY DOCK CO TENNECO CHEMICALS, INC	26,059 72 145 380,583 72 -----		
	TOTAL	406,971	0.68	48.70
26.	FORD MOTOR CO FORD AEROSPACE + COMMUNICATIONS	3,375 402,854 -----		
	TOTAL	406,229	0.68	49.38
27.	INTERNATIONAL BUSINESS MACHINES CO I B M DEUTSCHLAND GMBH	395,960 483 -----		
	TOTAL	396,443	0.67	50.05
28.	L T V CORP ADVANCED TECHNOLOGY CENTER, INC JONES + LAUGHLIN STEEL CORP KENTRON HAWAII LTD Vought Corp WILSON + CO INC	1,463 103 179 27,872 337,420 17,402 -----		
	TOTAL	384,439	0.65	50.70
29.	TODD SHIPYARDS CORP DESIGNERS + PLANNERS, INC	377,137 1,887 -----		
	TOTAL	379,024	0.64	51.34
30.	F P C CORP	360,405	0.60	51.94
31.	T R W INC AERTECH INDUSTRIES CE LEUM CATHAR + CO RAMSEY CORP T R W COLCRAIG ELECTRONICS, INC	292,117 526 127 46 32,557 -----		
	TOTAL	325,423	0.55	52.49
32.	AMERADA HESS CORP HESS OIL VIRGIN ISLANDS CORP	39,548 285,247 -----		
	TOTAL	325,195	0.55	53.04
33.	EXXON CORP ESSO A G ESSO ITALIANA S F A ESSO STANDARD OIL CO S A EXXON RESEARCH + ENGINEERING CO	282,926 27,013 454 349 77 -----		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL
33.	EXXON CORP		
	TOTAL	310,859	0.52
34.	CONGOLEUM CORP		
	BATH IRON WORKS CORP	282,275	
	TOTAL	282,275	0.47
35.	SINGER CO	285,658	
	H R B SINGER, INC	16,014	
	LAYNE ATLANTIC CO	16	
	SINGER COMPUTER CORP	13	
	SOCIETY FOR VISUAL EDUCATION, INC	43	
	TOTAL	281,744	0.47
36.	TELEDYNE INC	30,610	
	MICRONETICS INC	110	
	TELEDYNE BATTERY PRODUCTS	8,015	
	TELEDYNE BROWN ENGINEERING	12,555	
	TELEDYNE C A E	32,113	
	TELEDYNE CAMERA SYSTEMS	1,867	
	TELEDYNE CONTROLS	1,235	
	TELEDYNE CRYSTALONICS	59	
	TELEDYNE ELECTRONICS	14,844	
	TELEDYNE FIRTH STERLING INC	10,249	
	TELEDYNE GEOTECH	100	
	TELEDYNE HASTINGS RAYDIST	1,010	
	TELEDYNE HYDRA POWER	2,514	
	TELEDYNE INDUSTRIES, INC	145,529	
	TELEDYNE ISOTOPES	2,362	
	TELEDYNE M E C	4,751	
	TELEDYNE MCCORMICK SELF	713	
	TELEDYNE MCKAY	410	
	TELEDYNE NEOSHO	830	
	TELEDYNE OSTER	108	
	TELEDYNE PHILIRICK	13	
	TELEDYNE FINES	52	
	TELEDYNE PCST	25	
	TELEDYNE POWER ALLOYS	17	
	TELEDYNE REPUBLIC PFG	549	
	TELEDYNE SEMICONDUCTOR	134	
	TELEDYNE SPRAGUE ENGINEERING	277	
	TELEDYNE THERMATICS	704	
	TELEDYNE WAM CHANG	117	
	TELEDYNE WALTERBEC	26	
	TELEDYNE WISCONSIN MOTOR	303	
	TOTAL	272,281	0.46
37.	INTERNATIONAL TELEPHONE + TEL CORP	127,446	
	FEDERAL ELECTRIC CORP	44,068	
	I T T ARTIC SERVICES, INC	44,740	
	I T T BARTON	735	
	I T T BLACKBURN CORP	11	
	I T T CONTINENTAL BAKING CO	2,222	
	I T T COURIER SYSTEMS INC	28	
	I T T GECCA MARINE, INC	14	
	I T T ELECTRO PHYSICS LABORATORIES	38	
	I T T GENERAL CONTROLS, INC	418	
	I T T GILFILLAN INC	33,888	
	I T T GRINNELL CORP	52	
	I T T GWALTNEY INC	3,460	
	I T T HARPER, INC	275	

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
37.	INTERNATIONAL TELEPHONE + TEL CORP			
	I T T WENZE SERVICE	103		
	I T T JENNINGS	348		
	I T T MACKAY MARINE	43		
	I T T NORTH ELECTRIC CO	131		
	I T T POMONA ELECTRONICS INC	14		
	I T T SEMICONDUCTORS, INC	32		
	I T T TELECOMMUNICATIONS	249		
	I T T THOMPSON INDUSTRIES, INC	21		
	I T T WORLDCOMMUNICATIONS, INC	9,515		
	J C C PUMP CO INC	938		
	STANDARD ELEKTRIK LORENZ AG	12		
	TOTAL	268,721	0.45	55.41
38.	STANDARD OIL CO OF CALIF	5,061		
	CALTEX ASIA LTD	170	a/	
	CALTEX OIL PRODUCTS CO	27,028	a/	
	CALTEX OVERSEAS LTD	446	a/	
	CALTEX PHILIPPINES INC	26	a/	
	CHEVRON ASPHALT CO	52		
	CHEVRON CHEMICAL CO	140		
	CHEVRON INTERNATIONAL OIL CO, INC	504		
	CHEVRON OIL CO	3,402		
	CHEVRON U S A INC	207,037		
	TOTAL	243,866	0.41	55.82
39.	AMERICAN MOTORS CORP			
	A M GENERAL CORP	222,166		
	MERCURY PLASTICS CO	436		
	TOTAL	222,602	0.37	56.19
40.	BENDIX CORP	211,124		
	BENDIX AUTOLITE CORP	1,027		
	BENDIX FIELD ENGINEERING CORP	7,871		
	SKAGIT CORP	26		
	TOTAL	220,048	0.37	56.56
41.	GENERAL TIRE + RUBBER CO			
	AIRCJET GENERAL CORP	213,341		
	TOTAL	213,341	0.36	56.92
42.	BRITISH PETROLEUM CO LTD	23		
	B P AUSTRALIA LTD	1,442		
	B P NORTH AMERICA LTD	8,134		
	B P OIL CORP	114		
	B P TRADING LTD	201,341		
	TOTAL	211,054	0.35	57.27
43.	ENGELHARD MINERALS + CHEMICALS CORP	481		
	CEREY + CO INC	209,053		
	SKYLINE INDUSTRIES INC	835		
	TOTAL	210,369	0.35	57.62
44.	HARSCO CORP	206,320	0.35	57.97

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
45.	PETROLEUM MEXICANO	199,725	0.34	58.31
46.	GENERAL TELEPHONE + ELECTRIC COFF	86		
	G T E AUTOMATIC ELECTRIC INC	1,443		
	G T E INFORMATION SYSTEMS, INC	1,150		
	G T E LABORATORIES, INC	194		
	G T E LENKURT, INC	1,652		
	G T E SYLVANIA INC	179,495		
	G T E TELECOMUNICAZIONI SPA	164		
	GENERAL TELEPHONE CO OF FLORIDA	422		
	GENERAL TELEPHONE CO OF SOUTHEAST	728		
	GENERAL TELEPHONE CO OF SOUTHWEST	287		
	HAWAIIAN TELEPHONE CO	8,740		
	WESTERN GOLD + PLATINUM CO	75		
	TOTAL	194,516	0.33	58.64
47.	ROYAL DUTCH SHELL GROUP			
	SHELL CHEMICAL INC	133		
	SHELL CO OF THE ISLAND	561		
	SHELL CURACAO N V	50,741		
	SHELL EASTERN PETROLEUM PTE LTD	55,425		
	SHELL FRANCAISE	25,017		
	SHELL INTERNATIONAL	8,727		
	SHELL NEDERLAND	50		
	SHELL GIL CO	30,023		
	TOTAL	170,677	0.29	58.93
48.	MOBIL CORP			
	CONTAINER CORP OF AMERICA	108		
	HYDRO CONDUIT CORP	31		
	MOBIL GIL CORP	168,242		
	MOBIL GIL PHILIPPINES, INC	27		
	MOBIL RESEARCH + DEV CORP	63		
	TOTAL	168,471	0.28	59.21
49.	RET SEA ENGINEERING CO	167,751	0.28	59.49
50.	OGEEN CORP			
	AVONDALE SHIPYARDS INC	159,772		
	BETTER BUILT MACHINERY CORP	72		
	LUCKMAN (CHARLES) ASSOCIATES	12		
	SMS INSTRUMENTS, INC	2,082		
	TILLIE LEWIS FOODS INC	1,034		
	WILSON FOODS INC	3,919		
	TOTAL	166,851	0.28	59.77
51.	GOODYEAR TIRE + RUBBER CO	54,038		
	GOODYEAR AEROSPACE CORP	106,621		
	MOTOR WHEEL CORP	3,901		
	TOTAL	164,560	0.28	60.05
52.	SIGNAL COMPANIES INC (THE)			
	AIRSEARCH MFG CO	139		
	AIRSEARCH MFG CO OF ARIZONA	14,805		
	AIRSEARCH MFG CO OF CALIFORNIA	17,970		
	DUNHAM BUSH INC	614		
	GARRETT CORP	111,648		

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
52.	SIGNAL COMPANIES INC (THE) MACK TRUCKS INC SOUTHLAND OIL CORP	2,146 8,125 -----		
	TOTAL	155,527	0.26	60.31
53.	COASTAL CORP BELCHER OIL CO BELCHER OIL CO OF CAPE CANAVERAL BELCHER TERMINALS INC COASTAL STATES ENERGY CO COASTAL STATES MARKETING INC COASTAL STATES TRADING INC GLENN PETROLEUM CORP LC - VACA GATHERING CO UNION PETROLEUM CORP	12,850 3,237 508 844 77,133 41,865 262 6,330 11,365 -----		
	TOTAL	154,374	0.26	60.57
54.	MERCOLES, INC HAYEG INDUSTRIES INC	153,015 437 -----		
	TOTAL	153,452	0.26	60.83
55.	GCLLC, INC CHESAPEAKE INSTRUMENT CORP	150,352 427 -----		
	TOTAL	150,779	0.25	61.08
56.	AGIP SFA	148,653	0.25	61.33
57.	NORTH AMERICAN PHILIPS CORP AMPEREX ELECTRONIC CORP ANACOR BRUSH CO INC CHICAGO MAGNETIC WIRE CO ECA INTERNATIONAL INC GENERAL ATOMICS CORP MAGNAVEX CO MAGNAVEX GOVT + INDUSTRIAL ELEC CO NORTH AMERICAN PHILIPS CONTRACTS CO NORTH AMERICAN PHILIPS LTG CORP CHMITE MFG CO PHILIPS BUSINESS SYSTEMS INC PHILIPS ELECTRONIC INSTRUMENTS INC PHILIPS MEDICAL SYSTEMS INC PHILIPS ROXANE LABORATORIES INC SMITH HERMAN H INC THOMPSON HAYWARD CHEMICAL CO	1,253 1,761 124 688 42 550 71,757 67,329 1,357 83 17 16 71 1,634 13 338 80 -----		
	TOTAL	147,293	0.25	61.58
58.	E SYSTEMS, INC ELECTRONIC COMMUNICATIONS INC SERV AIR INC	131,682 4,050 6,580 -----		
	TOTAL	142,312	0.24	61.82
59.	GUYP OIL + REFINING CO INC	140,132	0.24	62.06

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
60.	JOHNS HOPKINS UNIVERSITY (N)	134,853	0.23	62.29
61.	CHAMBERLAIN MFG CORP	130,247	0.22	62.51
62.	SUN CO INC	76,349		
	SUN OIL TRADING CO	37,533		
	SUN SHIPBUILDING + DRY DOCK CO	15,872		
	TOTAL	129,754	0.22	62.73
63.	GENERAL CABLE CORP	3,562		
	AERC MECHANISM INC	69		
	AUTOMATION INDUSTRIES INC	124,434		
	G & H TECHNOLOGY INC	229		
	SPRAGUE ELECTRIC CO	641		
	TOTAL	128,935	0.22	62.95
64.	AVCC CORP	104,671		
	AVCC EMBASSY PICTURES CORP	24		
	AVCC EVERETT RESEARCH LABORATORY	19,451		
	TOTAL	124,146	0.21	63.16
65.	MOTOROLA INC	123,231		
	MOTOROLA OVERSEAS CORP	144		
	TOTAL	123,375	0.21	63.37
66.	AEROSPACE CORP (N)	114,020	0.19	63.56
67.	SANDERS ASSOCIATES INC	113,340	0.19	63.75
68.	EMERSON ELECTRIC CO	107,360		
	CHANCE A B CO	128		
	RIDGE TOOL CO	14		
	ROSEMOUNT INC	4,431		
	TOTAL	111,933	0.19	63.94
69.	MASSACHUSETTS INSTITUTE TECHNOLOGY	111,706	0.19	64.13
70.	THICKOL CORP	111,543	0.19	64.32
71.	CONTROL DATA CORP	110,816		
	CCMPA CORP	75		
	SERVICE BUREAU CORP THE	22		
	TOTAL	110,913	0.19	64.51
72.	EASTMAN KODAK CO	107,767		
	EASTMAN KODAK STORES INC	80		
	KODAK EXPORT, LTD	29		
	TOTAL	107,876	0.18	64.69

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
73.	PAN AMERICAN WORLD AIRWAYS INC	105,658	0.18	64.87
74.	HARRIS CORP	105,131	0.18	65.05
75.	VINNELL CORP	103,726	0.17	65.22
76.	STANDARD OIL OF INDIANA AMOCO OIL CO MICHELT OIL CORP	102,051 16		
	TOTAL	102,067	0.17	65.39
77.	LEAR SIEGLER INC	100,643	0.17	65.56
78.	BEECH AIRCRAFT CORP DENVER BEECHCRAFT, INC	98,267 38		
	TOTAL	98,305	0.16	65.72
79.	PACIFIC RESOURCES INC GASCO INC HAWAIIAN INDEPENDENT REFINERY INC	669 95,725		
	TOTAL	96,394	0.16	65.88
80.	U S & SOUTH AMERICAN ENTERPRISES	94,882	0.16	66.04
81.	CHARLES STARK DRAPEL LABS INC	93,062	0.16	66.20
82.	CUMMINS & CO OF INDIANAPOLIS + CO ENDIC LABORATORIES, INC REMINGTON ARMS CO, INC	9,399 431 79,181		
	TOTAL	89,011	0.15	66.35
83.	SVERDRUP + PARCEL + ASSOCS INC ARC INC	6,660 81,338		
	TOTAL	87,998	0.15	66.50
84.	NORRIS INDUSTRIES CONNELL BRCS CO LTD	84,428 1,561		
	TOTAL	85,989	0.14	66.64
85.	TRANSAMERICA CORP BUDGET RENT A CAR CORP OF AMERICA DE LAVAL TURBINE, INC SYNERGRAPHICS, INC TRANS INTL AIRLINES INC	15 14,860 10 70,863		
	TOTAL	85,748	0.14	66.78

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
86.	BETHLEHEM STEEL CORP	85,596	0.14	66.92
87.	GULF OIL CORP	35,854		
	GULF OIL TRADING CO	4,134		
	GULF PETROLEUM SA PANAMA	368		
	GULF RESEARCH + DEVELOPMENT CO	15		
	KCREA OIL CORP	39,313		
	TOTAL	79,724	0.13	67.05
88.	COMPLER SCIENCES CORP	78,571	0.13	67.18
89.	ATLANTIC RICHFIELD CO	75,423		
	WRIGHT OIL CO INC	99		
	TOTAL	75,522	0.13	67.31
90.	MASON + MANGER SILAS MASON CO	74,318	0.12	67.43
91.	LOVAL CORP	68,855		
	CONIC CORP	2,376		
	TOTAL	71,231	0.12	67.55
92.	HENLETT PACKARD CO	70,529		
	CATAMEC CORP	43		
	TOTAL	70,572	0.12	67.67
93.	MITRE (THE) CORP (N)	69,962	0.12	67.79
94.	RICH MARC + CO	69,193	0.12	67.91
95.	INTERNATIONAL HARVESTER CO	64,213		
	MACLEOD + CO	2,352		
	TOTAL	66,565	0.11	68.02
96.	BURROUGHS CORP	65,314	0.11	68.13
97.	DAY + ZIMMERMAN INC	65,066	0.11	68.24
98.	CUEIC CORP	60,520		
	CLBIC WESTERN DATA	1,263		
	FARSONS MEDICAL GAS CO	71		
	SOUTHEASTERN ELEVATOR CORP	21		
	UNITED STATES ELEVATOR CORP	66		
	US WESTERN ELEVATOR CORP	278		
	TOTAL	62,179	0.10	68.34

RANK	COMPANIES	THOUSANDS OF DOLLARS	PERCENT OF U.S. TOTAL	CUMULATIVE PERCENT OF U.S. TOTAL
99.	NATCHAS COMPANY			
	AMERICAN PRESIDENT LINES, LTD	60,531		
	WEST INDIES OIL CO LTD	468		
	TOTAL	60,999	0.10	68.44
100.	UNITED INDUSTRIAL CORP			
	A A I CORP	58,429		
	AFFILIATED HOSPITAL PRODUCTS, INC	1,957		
	DETROIT STOKER CO	76		
	M P L INC	75		
	TOTAL	60,577	0.10	68.54

a/ Stock ownership is equally divided between Standard Oil Company of California and Texaco, Inc.